



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1734883	PAGE 1
REPORT DATE:	09/21/22	
DATE SAMPLED:	09/08/22	DATE RECEIVED: 09/10/22
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty nine water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent page.

SAMPLE DATA

SAMPLE ID	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
TS-1	0.019	<0.001	<0.010				
TS-2	0.077	0.018	1.64				
TS-3	0.211		2.37				
TS-4a	0.024		0.150				
TS-4d	0.025						
TS-5a	0.029		0.064			18	2.7
TS-5b	0.030						
TS-5d	0.032						
TS-6a	0.030	0.003	0.017	136		8.5	3.6
TS-6b	0.031						
TS-6c	0.031						
TS-6d	0.029	0.006					
TS-7a	0.030		<0.010			11	3.9
TS-7b	0.031						
TS-7d	0.033						
TS-8a	0.038		<0.010			6.1	2.6
TS-8d	0.038						
TS-9	0.198	0.050	14.1	425	59.6		
TS-11a	0.064	0.012	0.022	135		11	3.5
TS-11b	0.066						
TS-11c	0.066						
TS-11d	0.080						
TS-12a	0.058		0.020			9.3	3.4
TS-12d	0.080						
TS-14	0.157	0.107	1.48	157	16.7		
TS-15a	0.057		0.032			10	4.2
TS-15b	0.053						
TS-15c	0.051						
TS-15d	0.060						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	154	
TS-2		2.04
TS-6a		0.460
TS-9	1081	
TS-11a		0.640
TS-14	370	1.86



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QA/QC DATA

QC PARAMETER	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.8	SM1810200H	SM1810200H
DATE ANALYZED	09/19/22	09/10/22	09/10/22	09/16/22	09/14/22	09/20/22	09/20/22
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-15d	BATCH	TS-15a	TS-14	BATCH	TS-15a	TS-15a
ORIGINAL	0.060	<0.001	0.032	157	5.99	10	4.2
DUPLICATE	0.062	<0.001	0.029	154	5.75	11	3.6
RPD	3.41%	NC	9.83%	2.25%	4.07%	6.45%	17.09%
SPIKE SAMPLE							
SAMPLE ID	TS-15d	BATCH	TS-15a		BATCH		
ORIGINAL	0.060	<0.001	0.032		5.99		
SPIKED SAMPLE	0.105	0.022	0.232		15.7		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	88.89%	110.00%	100.05%	NA	97.03%	NA	NA
QC CHECK							
FOUND	0.098	0.040	0.429	101	10.2		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	104.26%	102.56%	105.08%	101.00%	102.00%	NA	NA
BLANK							
	<0.002	<0.010	<0.010	NA	<0.500	NA	NA

RPD = RELATIVE PERCENT DIFFERENCE.
 NA = NOT APPLICABLE OR NOT AVAILABLE.
 NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
 OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski

Damien Gadomski
 Project Manager